

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10588694
	Filing Date		2005-02-09
	First Named Inventor	AGNES, George R.	
	Art Unit		
	Examiner Name		
Attorney Docket Number		S168 0226/TWB	

U.S.PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
	1	5382801	A	1995-01-17	KANAYAMA, Toshihiko		
	2	6630006	B2	2003-10-07	SANTARSIERO, Bernard D.		
	3	6846578	B2	2005-01-25	KUMACHEVA, Eugenia		

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S.PATENT APPLICATION PUBLICATIONS							Remove
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
	1	20030024470	A1	2003-02-06	Myerson, Allan S.		

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

FOREIGN PATENT DOCUMENTS								Remove
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	09944746	WO	A1	1999-09-10	Ortho McNeil Pharm. Inc. (US)		<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10588694
Filing Date		2005-02-09
First Named Inventor	AGNES, George R.	
Art Unit		
Examiner Name		
Attorney Docket Number	S168 0226/TWB	

2	02057520	WO	A1	2002-07-25	Chemical Holovoice AB	<input type="checkbox"/>
3	0235553	WO	A2	2002-05-02	Simon Fraser University	<input type="checkbox"/>
4	2004075208	WO	A2	2004-09-02	Simon Fraser University	<input type="checkbox"/>
5	2434886	CA	A1	2002-07-25	Chemical Holovoice AB	<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	Aardahl, C. L and Davis, E. J., "Gas/aerosol chemical reactions in the NaOH-SO <sub>2</sub> -H <sub>2</sub> O system", Appl. Spectrosc., 1996, 50(1):71-77.	<input type="checkbox"/>
	2	Agnes, G. R and Horlick, G., "Electrospray mass spectrometry as a technique for elemental analysis: quantitative aspects", Appl. Spectrosc., 1994, 48(6):649-654.	<input type="checkbox"/>
	3	Anders, K., et al., "New technique for investigating phase transition processes of optically levitated droplets consisting of water and sulfuric acid", J. Geophys. Res., Atmospheres, 1996, 101(D14): 19223-19229.	<input type="checkbox"/>
	4	Bancel, P. A., et al., "Manipulating crystals with light", J Cryst. Growth, 1999, 196:685-690.	<input type="checkbox"/>
	5	Banic, C. M. and Iribarne, J. V., "Equilibrium constants for clustering of neutral molecules about gaseous ions", J. Chem. Phys., 1985, 83(12):6432-6448.	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10588694
Filing Date	2005-02-09
First Named Inventor	AGNES, George R.
Art Unit	
Examiner Name	
Attorney Docket Number	S168 0226/TWB

6	Bechtold, I. H., et al., "Rubbing-induced charge domains observed by electrostatic force microscopy: effect on liquid crystal alignment", Liquid Crystals, 2003, 30(5):591-598.	<input type="checkbox"/>
7	Bengtsson, G., et al., "Sorption of trace organics to colloidal clays, polymers, and bacteria", Soil Sci. Soc. Am. J., 1993, 57:1261-1270.	<input type="checkbox"/>
8	Bertero, G. A., et al., "Containerless processing and rapid solidification of Nb-Si alloys in the niobium-rich eutectic-range", Metallurgical Transactions A, 1991, 22A:2713-2721.	<input type="checkbox"/>
9	Bertero, G. A., et al., "Containerless processing and rapid solidification of niobium-silicon alloys of hypereutectic composition", Metallurgical Transactions A: Physical Metallurgy and Materials Science, 1991, 22A:2723-2732.	<input type="checkbox"/>
10	Binder, K., "Is laser-induced nucleation due to a bulk long-wavelength instability?", Journal de Physique, Colloque, 1980, 5(41):C4-75 to C4-78.	<input type="checkbox"/>
11	Blanchard, D. C., "Electrically charged drops from bubbles in sea water and their meteorological significance", J. Meteor., 1958, 15:383-396.	<input type="checkbox"/>
12	Bogan, M. J. and Agnes, G. R., "MALDI-TOF-MS analysis of droplets prepared in an electrodynamic balance: "Wall-less" sample preparation, Anal. Chem., 2002, 74:489-496.	<input type="checkbox"/>
13	Bogan, M. J. and Agnes, G. R., "Wall-less sample preparation of $\mu\text{m}$ -sized sample spots for femtomole detection limits of proteins from liquid based UV-MALDI matrices", J. Am. Soc. Mass Spectrom., 2004, 15:486-495	<input type="checkbox"/>
14	Bogan, M. J., et al., "Promotion of alpha-cyano-4-hydroxycinnamic acid and peptide cocrystallization within levitated droplets with net charge", J. Am. Soc. Mass Spectrom., 2005, 16:254-262.	<input type="checkbox"/>
15	Brooks, J. S., et al., "New opportunities in science, materials, and biological systems in the low-gravity (magnetic levitation) environment (invited)", J. Appl. Phys., 2000, 87(9):6194-6199.	<input type="checkbox"/>
16	Bunt, C. R., et al., "The effects of pH, ionic strength and organic phase on the bacterial adhesion to hydrocarbons (BATH) test", Int. J. Pharm., 1993, 99(2-3):93-98.	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10588694
Filing Date	2005-02-09
First Named Inventor	AGNES, George R.
Art Unit	
Examiner Name	
Attorney Docket Number	S168 0226/TWB

17	Carlesso, V., et al., "Halogen counter-ion effect on the dissociation of monosaccharide-iron complexes generated by electrospray ionization combined with an ion trap mass spectrometer", Eur. J. Mass Spectrom., 2001, 7:331-341.	<input type="checkbox"/>
18	Castleman, A. W. and Tang, I. N., "Role of small clusters in nucleation about ions", J. Chem. Phys. 1972, 57 (9):3629-3638.	<input type="checkbox"/>
19	Castleman, A. W., et al., "The properties of ion clusters and their relationship to heteromolecular nucleation", J. Chem Phys., 1978, 68(4):1760-1767.	<input type="checkbox"/>
20	Cederfelt, S., et al., "On the charge limit for crystallizing particles", J. Aerosol. Sci., 1990, 21(Suppl. 1):S127-S130.	<input type="checkbox"/>
21	Chang, Y. I., "The effect of cationic electrolytes on the electrostatic behavior of cellular surfaces with ionizable groups", J. Theor. Biol., 1989, 139(4):561-571.	<input type="checkbox"/>
22	Charles, L., et al., "Effects of liquid phase composition on salt cluster formation in positive ion mode electrospray mass spectrometry: implications for clustering mechanism in electrospray", J. Am. Soc. Mass Spectrom., 2001, 12: 1077-1084.	<input type="checkbox"/>
23	Chung, S. K. and Trinh, E. H., "Applications of hybrid ultrasonic-electrostatic levitation to crystal growth and drop dynamics", Proceedings of FEDSM'98 (Am. Soc. Mech. Eng.), 1998, 245:18/91-18/97.	<input type="checkbox"/>
24	Chung, S. K. and Trinh, E. H., "Containerless protein crystal growth in rotating levitated drops", J. Cryst. Growth, 1998, 194(3-4):384-397.	<input type="checkbox"/>
25	Clegg, S., et al., "An examination into the attachment of bio-organic material to the mineral particles in sewer sediments", Environ. Tech. 1993, 14(5):463-470.	<input type="checkbox"/>
26	Coakley, W. T., et al., "An interfacial instability approach to erythrocyte adhesion by macromolecules", Colloids and Surfaces B. Biointerfaces, 1994, 2(281-290).	<input type="checkbox"/>
27	Cody, G. D., et al., "Primordial carbonylated iron-sulfur compounds and the synthesis of pyruvate", Science, 2000, 289: 1337-1340.	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10588694
Filing Date	2005-02-09
First Named Inventor	AGNES, George R.
Art Unit	
Examiner Name	
Attorney Docket Number	S168 0226/TWB

28	Cohen, M.D., et al., "Studies of concentrated electrolyte solutions using the electrodynamic balance. 3. solute nucleation", J. Phys. Chem., 1987, 91:4583-4590.	<input type="checkbox"/>
29	Constantopoulos, T. L., et al., "Challenges in achieving a fundamental model for ESI", Anal. Chim. Acta, 2000, 406:37-52.	<input type="checkbox"/>
30	Counterman, A. E. and Clemmer, D. E., "Magic number clusters of serine in the gas phase", J. Phys. Chem. B, 2001, 105:8092-8096.	<input type="checkbox"/>
31	Croat, T. K., et al., "Containerless solidification studies of the 1/1 phase in Ti-(MN,CR,FE)-SI-O alloys", J. Mater. Res. 1999, 14:4208-4213.	<input type="checkbox"/>
32	Davis, E. J., et al., "The double-ring electrodynamic balance for microparticle characterization", Rev. Sci. Instrum., 1990, 61:1281-1288.	<input type="checkbox"/>
33	Davis, E. J., et al., "Measurement of aerosol/gas reaction rates by microparticle Raman spectroscopy", J. Aerosol Sci., 1992, 23(Suppl. 1):S429-S432.	<input type="checkbox"/>
34	Davis, E. J., "A history of single aerosol particle levitation", Aerosol Sci. Technol., 1997, 26:212-254	<input type="checkbox"/>
35	Djikaev, Y. S., et al., "Thermodynamics of crystal nucleation in multicomponent droplets: adsorption, dissociation, and surface-stimulated nucleation", J. Chem. Phys., 2003, 118(14):6572-6581.	<input type="checkbox"/>
36	Dudek, D. R., et al., "Charge loss from heated particles levitated in an electrodynamic balance", Combust. Sci. Technol., 1990, 73(1-3):447-461.	<input type="checkbox"/>
37	Duft, D., et al., "Shape oscillations and stability of charged microdroplets", Phys. Rev. Lett., 2002, 89(8):84503-1 to 84503-4.	<input type="checkbox"/>
38	Duft, D., et al., "Rayleigh jets from levitated microdroplets", Nature, 2003, 421:128.	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10588694
Filing Date	2005-02-09
First Named Inventor	AGNES, George R.
Art Unit	
Examiner Name	
Attorney Docket Number	S168 0226/TWB

39	Duft, D. and Leisner, T., "Laboratory evidence for volume-dominated nucleation of ice in supercooled water microdroplets", Atmos. Chem. Phys. Discuss., 2004, 4:3077-3088.	<input type="checkbox"/>
40	Ertem, G. and Ferris, J. P., "Template-directed synthesis using the heterogeneous templates produced by montmorillonite catalysis: A possible bridge between the prebiotic and RNA worlds", J. Am. Chem. Soc., 1997, 119: 7197-7201.	<input type="checkbox"/>
41	Esen, C., et al., "Raman investigation of photopolymerization reactions of single optically levitated microparticles", Appl. Spectrosc., 1996, 50(7):823-828.	<input type="checkbox"/>
42	Feng, X., et al., "Coulomb fission event resolved progeny droplet production from isolated evaporating methanol droplets", Anal. Chem., 2001, 73:4499-4507.	<input type="checkbox"/>
43	Fenn, J. B., et al., "Electrospray ionization for mass spectrometry of large biomolecules", Science, 1989, 246:64-71.	<input type="checkbox"/>
44	Ferris, J. P., et al., "Synthesis of long prebiotic oligomers on mineral surfaces", Nature, 1996, 381:59-61.	<input type="checkbox"/>
45	Festag, R., et al., "Single- and few-chain polystyrene particles by electrospray", Macromolecules 1997, 30:6238-6242.	<input type="checkbox"/>
46	Gadomski, A. and Siodmiak, J., "A novel model of protein crystal growth: Kinetic limits, length scales and the role of the double layer", Croatia Chemica Acta, 2003, 76(2):129-136.	<input type="checkbox"/>
47	Gamero-Castano, M. and Fernandez de la Mora, J., "Mechanisms of electrospray ionization of singly and multiply charged salt clusters", Anal. Chim. Acta, 2000, 406:67-91.	<input type="checkbox"/>
48	Gamero-Castano, M. and Femadez de la Mora, J., "Modulations in the abundance of salt clusters in electrosprays", Anal. Chem., 2000, 72:1426-1429.	<input type="checkbox"/>
49	Gamero-Castano, M. and Fernandez de la Mora, J., "Kinetics of small ion evaporation from the charge and mass distribution of multiply charged clusters in electrosprays", J. Mass Spectrom., 2000, 35:790-803.	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10588694
Filing Date	2005-02-09
First Named Inventor	AGNES, George R.
Art Unit	
Examiner Name	
Attorney Docket Number	S168 0226/TWB

50	Gamero-Castano, M. and Fernandez de la Mora, J., "Ion-induced nucleation: Measurement of the effect of embryo's size and charge state on the critical supersaturation", J. Chem. Phys., 2002, 117(7):3345-3353.	<input type="checkbox"/>
----	---	--------------------------

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.